



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	09/751,955
		Filing Date	12/29/2000
		First Named Inventor	Pamela A. Binns
		Art Unit	2127
		Examiner Name	Shah, Nlesh R.
Attorney Docket Number	H16-25538		
Sheet	1	of	1

RECEIVED
MAY 14 2004
Technology Center 2100

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
NS		RIPOLL, ISMAEL ET AL., "An Optimal Algorithm for Scheduling Soft Aperiodic Tasks in Dynamic-Priority Preemptive Systems," IEEE Transactions on Software Engineering: Vol. 23, No. 6, June 1997, pages 388-399, the whole document.	
NS		BINNS, PAM, "Incremental Rate Monotonic Scheduling for Improved Control System Performance," Third IEEE Montreal Quebec Canada, 9-11 June 1997, pages 80-90, page 80--page 85.	
NS		ATLAS, ALIA K. ET AL., "Slack Stealing Job Admission Control*," Technical Report - Boston University, 2 May 1998, pages 1-14, page 1--page 6.	
NS		DAVIS, R.I., "Approximate Slack Stealing Algorithms for Fixed Priority Pre-emptive Systems," Real-time Systems Research Group, Dept. of Computer Science, University of York, England, November 1993, page 1.	
NS		TIA, TOO-SENG ET AL., "Aperiodic Request Scheduling in Fixed-Priority Preemptive Systems," University of Illinois at Urbana-Champaign, July 1994, page 9--page 14.	
AN		LEHOCZKY, J.P. ET AL., "Chapter 8: Scheduling Periodic and Aperiodic Tasks using the Slack Stealing Algorithm," Advances in Real Time Systems, 1995, pages 172--195, paragraph '08/3!	

Examiner Signature		Date Considered	Aug 24/04
--------------------	--	-----------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Sheet 1 of 1

Form 1449*	Atty. Docket No.: 256.049US1	Serial No. Unknown
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Applicant: Pamela Anne Binns	
	Filing Date: Herewith	Group: Unknown

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date Is Appropriate
---------------------	-----------------	------	------	-------	----------	-------------------------------

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes No
---------------------	-----------------	------	---------	-------	----------	-------------------------

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initial	
<i>AB</i>	Cofer, D., et al., "Using Model Checking for Verification of Partitioning Properties in Integrated Modular Avionics", IEEE, Digital Avionics System Conference (DASC), pp. 1.D.2-1 through 1.D.2-10, (October, 2000)

Examiner <i>W. B. Sun</i>	Date Considered <i>Aug 25 04</i>
---------------------------	----------------------------------

*Substitute Disclosure Statement Form (PTO-1449)

**EXAMINER. Initial if citation considered, whether or not citation is in conformance with MPEP 609, Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 3

Form 1449*	Atty. Docket No.: H16-215538 (256.049US1)	Serial No. 09/751,955
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Applicant: Pamela Anne Binns	
	Filing Date: December 29, 2000	Group: Unknown

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
---------------------	-----------------	------	------	-------	----------	-------------------------------

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes No
---------------------	-----------------	------	---------	-------	----------	-----------------------

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initial	Document
AS	Audaley, N.C., et al., "Fixed Priority Pre-emptive Scheduling: An Historical Perspective", <u>Real-Time Systems</u> , 8, Kluwer Academic Publishers, Boston, pp. 173-198, (1995)
AS	Bettati, R., et al., "End-to-End Scheduling to Meet Deadlines in Distributed Systems", <u>Proceedings of the 12th International Conference on Distributed Computing Systems</u> , Yokohama, Japan, 8 p., (June 1992)
AS	Binns, P., "Incremental Rate Monotonic Scheduling for Improved Control System Performance", <u>Real-Time Applications Symposium</u> , Honeywell Technology Center, 11 p., (June 1997)
AS	Binns, P., "Scheduling Slack in MetaH", <u>Real-Time Systems Symposium, Work in Progress Session</u> , Honeywell Technology Center, 4 p., (Dec. 1996)
AS	Garcia, J.J., et al., "Optimized Priority Assignment for Tasks and Messages in Distributed Hard Real-Time Systems", <u>IEEE</u> , pp. 124-132, (1995)
AS	Gerber, R., et al., "Semantics-Based Compiler Transformations for Enhanced Schedulability", <u>IEEE</u> , pp. 232-242, (1993)
AS	Gertz, M.W., et al., "A Human-Machine Interface to Support Reconfigurable Software Assembly for Virtual Laboratories", <u>IEEE Robotics and Automation Magazine</u> , 1 (4), pp. 1-8, (Dec. 1994)
AS	Gillies, D.W., et al., "Scheduling Tasks with and/or Precedence Constraints", <u>SIAM J. Comput.</u> , 24 (4), Society for Industrial and Applied Mathematics, pp. 797-810, (Aug. 1995)
AS	Harbour, M.G., et al., "Fixed Priority Scheduling of Periodic Tasks with Varying Execution Priority", <u>IEEE</u> , pp. 116-128, (1991)
AS	Lehoczký, J., et al., "The Rate Monotonic Scheduling Algorithm: Exact Characterization And Average Case Behavior", <u>IEEE</u> , pp. 166-171, (1989)

Examiner

Date Considered

*Substitute Disclosure Statement Form (PTO-1449)

**EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 2 of 3

Form 1449*	Atty. Docket No.: H16-215538 (256.049US1)	Serial No. 09/751,955
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Applicant: Pamela Anne Binns	
	Filing Date: December 29, 2000	Group: Unknown

OTHER DOCUMENTS

**Examiner
Initial

(Including Author, Title, Date, Pertinent Pages, Etc.)

- MS* Lehoczky, J.P., et al., "An Optimal Algorithm for Scheduling Soft-Aperiodic Tasks in Fixed-Priority Preemptive Systems", IEEE, pp. 110-123, (1992)
- MS* Lehoczky, J.P., et al., "Enhanced Aperiodic Responsiveness in Hard Real-Time Environments", IEEE, pp. 261-270, (1987)
- MS* Leung, J.Y., et al., "On the Complexity of Fixed-Priority Scheduling of Periodic, Real-Time Tasks", Performance Evaluation 2, North-Holland Publishing Company, pp. 237-250, (1982)
- MS* Liu, C.L., et al., "Scheduling Algorithms for Multiprogramming in a Hard-Real-Time Environment", Journal of the Association for Computing Machinery, 20, (1), pp. 46-61, (Jan. 1973)
- MS* Luqi, "Real-Time Constraints in a Rapid Prototyping Language", Computer Lang., 18 (2), Computer Science Department, Naval Postgraduate School, Monterey, CA, pp. 77-103, (1993)
- MS* McConnell, D.J., et al., "Reengineering a Single Threaded Embedded Missile Application Onto a Parallel Processing Platform Using MetaH", IEEE, Proceedings of the 4th WPDRTS, pp. 57-64, (1996)
- MS* Mok, A.K., et al., "Synthesis of a Real-Time Message Processing System with Data-driven Timing Constraints", IEEE, pp. 133-143, (1987)
- MS* Penix, J., et al., "Verification of Time Partitioning in the DEOS Scheduler Kernel", The 22nd International Conference on Software Engineering, Limeric, Ireland, ACM Press, pp. 1-10, (June 4, 2000)
- MS* Saksena, M., et al., "Design and Implementation of Maruti-II", In: Principles of Real-Time Systems, Chapter 4, Sang Son, Ed., pp. 72-102, (1994)
- MS* Saksena, M., et al., "Guidelines for Automated Implementation of Executable Object Oriented Models for Real-Time Embedded Control Systems", IEEE, pp. 240-251, (1997)
- MS* Sha, L., et al., "Priority Inheritance Protocols: An Approach to Real-Time Synchronization", IEEE Transactions on Computers, 39 (9), pp. 1175-1185, (Sept. 1990)
- MS* Sha, L., et al., "Solutions For Some Practical Problems In Prioritized Preemptive Scheduling", IEEE, pp. 181-191, (1986)

Examiner

Date Considered

*Substitute Disclosure Statement Form (PTO-1449)

**EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 3 of 3

Form 1449*	Atty. Docket No.: H16-215538 (256.049US1)	Serial No. 09/751,955
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Applicant: Pamela Anne Binns	
	Filing Date: December 29, 2000	Group: Unknown

OTHER DOCUMENTS

*Examiner
Initial

(Including Author, Title, Date, Pertinent Pages, Etc.)

15	Spuri, M., et al., "How to Integrate Precedence Constraints and Shared Resources in Real-Time Scheduling", <u>IEEE Transactions on Computers</u> , 43 (12), pp. 1407-1412, (Dec. 1994)
18	Stoyenko, A.D., "A Schedulability Analyzer for Real-Time Euclid", <u>IEEE</u> , pp. 210-227, (1987)
18	Sun, J., et al., "Synchronization Protocols in Distributed Real-Time Systems", <u>IEEE</u> , pp. 38-45, (1996)
15	Vestal, S., "Fixed-Priority Sensitivity Analysis for Linear Compute Time Models", <u>IEEE Transactions on Software Engineering</u> , 20 (4), pp. 308-317, (April 1994)
18	Vestal, S., "MetaH Support for Real-Time Multi-Processor Avionics", <u>Joint Workshop on Parallel and Distributed Real-Time Systems</u> , Geneva, Switzerland, 10 p., (April 1997)
98	Vestal, S., "Mode Changes in a Real-Time Architecture Description Language", <u>Second International Workshop on Configurable Distributed Systems</u> , 11 p., (March 1994)
18	Vestal, S., et al., "Scheduling and Communication in MetaH", <u>Proceedings of the Real-Time Systems Symposium</u> , Raleigh-Durham, NC, 7 p., (Dec. 1993)
18	Ku, J., et al., "Scheduling Processes with Release Times, Deadlines, Precedence, and Exclusion Relations", <u>IEEE Transactions on Software Engineering</u> , 16 (3), pp. 360-369, (April, 1994)

Examiner

Date Considered

*Substitute Disclosure Statement Form (PTO-1449)

**EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.